

Section II  
Soil and Site Information

Building Site Development  
Union County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ab: Albaton-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.88	Too clayey	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
		Flooding	0.40				
Ac: Albaton-----	100	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.88	Too clayey	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
		Flooding	0.40				
Ad: Albaton-----	100	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Flooding	1.00
		Frost action	1.00	Too clayey	0.97	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80	Ponding	1.00
		Low strength	1.00	Cutbanks cave	0.10		
Ae: Alcester-----	85	Very limited Frost action	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
Bd: Benclaire-----	90	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Low strength	1.00	Flooding	0.60	Depth to saturated zone	0.03
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
		Depth to saturated zone	0.03				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Be: Benclare-----	90	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Low strength	1.00	Flooding	0.60	Depth to saturated zone	0.03
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
		Depth to saturated zone	0.03				
Bf: Blencoe-----	90	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.95	Very limited Too clayey	1.00
		Low strength	1.00	Too clayey	0.28		
		Flooding	0.40	Cutbanks cave	0.10		
Bg: Blyburg-----	90	Very limited Frost action	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Flooding	0.40				
Bor: Orthents, Loamy-----	100	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Somewhat limited Slope	0.04
		Shrink-swell	0.50	Slope	0.04		
		Frost action	0.50				
		Slope	0.04				
Ca: Calco-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Frost action	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	0.10		
		Low strength	1.00				
		Shrink-swell	0.50				
CbE2: Crofton-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CbF: Crofton-----	85	Very limited Slope Low strength Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
CnB: Crofton-----	55	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Nora-----	35	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CnD2: Crofton-----	55	Very limited Low strength Frost action Slope	1.00 0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
Nora-----	25	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Da: Davis-----	90	Very limited Low strength  Shrink-swell Frost action	1.00  0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61  0.10	Not limited	
De: Dempster-----	90	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	
EaB: Egan-----	55	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Shindler-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EaC: Egan-----	50	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Shindler-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EmA: Enet-----	95	Somewhat limited Flooding	0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.24	Not limited	
EnB: Enet-----	50	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Dempster-----	50	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	
Fa: Chaska-----	97	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	0.80		
Fb: Norway-----	99	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	1.00	Droughty	0.69
		Depth to saturated zone	1.00	Flooding	0.60	Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Fc: Forney-----	100	Very limited Shrink-swell  Low strength  Frost action Flooding Depth to saturated zone	1.00  1.00  0.50 0.40 0.19	Very limited Depth to saturated zone Too clayey  Cutbanks cave	1.00  0.88  0.10	Very limited Too clayey  Depth to saturated zone	1.00  0.19
Fe: Forney-----	90	Very limited Shrink-swell  Low strength  Frost action Flooding Depth to saturated zone	1.00  1.00  0.50 0.40 0.19	Very limited Depth to saturated zone Too clayey  Cutbanks cave	1.00  0.88  0.10	Very limited Too clayey  Depth to saturated zone	1.00  0.19
Ga: Grable-----	70	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.60	Somewhat limited Flooding	0.60
Gb: Graceville-----	90	Very limited Frost action Low strength  Shrink-swell	1.00 1.00  0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
Gp: Orthents, Gravelly--	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content	0.91 0.25
Ha: Haynie-----	80	Very limited Frost action Low strength Flooding	1.00 1.00 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hb: Haynie-----	90	Very limited Frost action Flooding  Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.60 0.15 0.10	Somewhat limited Flooding	0.60
Ja: James-----	90	Very limited Shrink-swell  Depth to saturated zone Frost action  Flooding Low strength	1.00 1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding  Too clayey  Cutbanks cave	1.00 0.80 0.50 0.10	Very limited Flooding  Salinity  Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
La: Lakeport-----	90	Very limited Frost action  Low strength Shrink-swell Flooding	1.00 1.00 1.00 0.40	Somewhat limited Depth to saturated zone Cutbanks cave	0.82 0.10	Not limited	
Lb: Lamo-----	90	Very limited Frost action  Flooding  Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding  Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding  Depth to saturated zone	0.60 0.19
Ld: Luton-----	90	Very limited Shrink-swell  Depth to saturated zone Low strength Frost action Flooding	1.00 1.00 1.00 0.50 0.40	Very limited Depth to saturated zone Too clayey  Cutbanks cave	1.00 0.88 0.10	Very limited Depth to saturated zone Too clayey	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Ma: Mcpaul-----	85	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
Mb: Modale-----	90	Very limited Shrink-swell  Frost action Low strength Flooding Depth to saturated zone	1.00  1.00 1.00 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00  0.88 0.10	Somewhat limited Depth to saturated zone	0.03
McA: Moody-----	90	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
McB: Moody-----	90	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
MdC: Moody-----	50	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Nora-----	35	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NeF: Nora-----	50	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Crofton-----	40	Very limited Slope Low strength Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Oa: Omadi-----	90	Very limited Frost action Low strength Flooding	1.00 1.00 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
Ob: Onawa-----	80	Very limited Shrink-swell Frost action  Low strength Flooding	1.00 1.00  1.00 0.40	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.88 0.82  0.10	Very limited Too clayey	1.00
Or: Orthents, Loamy-----	95	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Pa: Percival-----	80	Very limited Shrink-swell Low strength  Frost action Flooding	1.00 1.00  0.50 0.40	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.82  0.50	Very limited Too clayey Droughty	1.00 0.30
Sa: Salix-----	90	Very limited Frost action  Low strength Shrink-swell	1.00  1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15  0.10	Not limited	



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sb: Salmo-----	90	Very limited Frost action  Flooding Low strength  Shrink-swell Depth to saturated zone	1.00  1.00 1.00  0.50 0.03	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00  0.80 0.10	Very limited Flooding  Salinity Depth to saturated zone	1.00  1.00 0.03
ScB: Sardak-----	90	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.69
SdA: Scroll-----	90	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.82	Very limited Droughty Too clayey	1.00 1.00
SeA: Sardak-----	90	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.60	Somewhat limited Droughty Flooding	0.69 0.60
ShD: Shindler-----	85	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
ShE: Shindler-----	85	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
St: Storla-----	90	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TaB: Thurman-----	85	Not limited		Very limited Cutbanks cave	1.00	Not limited	
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wakonda-----	45	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Worthing-----	30	Very limited Shrink-swell Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
		Depth to saturated zone	1.00	Too clayey	0.50		
		Frost action	1.00	Cutbanks cave	0.10		
		Low strength	1.00				
Chancellor-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Too clayey	0.12		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
WbA: Wentworth-----	90	Very limited Frost action	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
WbB: Wentworth-----	90	Very limited Frost action	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wc: Wentworth-----	40	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Worthing-----	30	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Wh: Whitewood-----	85	Very limited Frost action  Flooding Low strength Depth to saturated zone Shrink-swell	1.00  1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00  0.60 0.10	Very limited Depth to saturated zone Flooding	1.00 0.60
Wo: Worthing-----	90	Very limited Shrink-swell Ponding  Depth to saturated zone Frost action Low strength	1.00 1.00  1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Ws: Worthing-----	55	Very limited Shrink-swell Ponding  Depth to saturated zone Frost action Low strength	1.00 1.00  1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00